

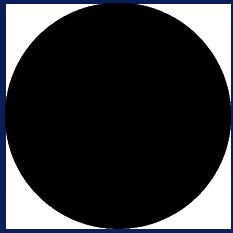


Y2K Changes to Specifications

Gordon Ferrari

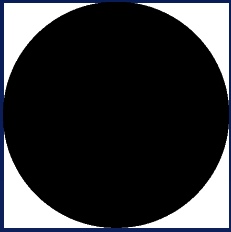
NIMA Interoperability Standards Division

20 February 1998



Y2K “Policy” Guidance

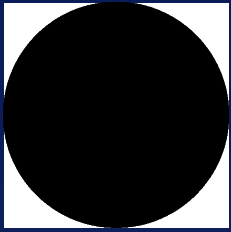
- ODUSD(IA&I)AP Memorandum
 - Use four digit year in specifications
 - Recent guidance is that it is primarily a wake-up call for the Y2K problem, not necessarily a mandated solution
- NIMA Y2K Management Plan
 - For data transfer across services or agencies, use 4-digit year if possible
 - Can use 2-digit year when it is in the best interest of the Government
 - Require concurrence for 2-digit fix



Categorization of Products

- 4-digit year
- Date not applicable
- 2-digit year

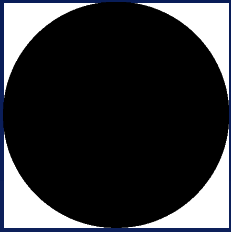
Following lists are still in draft form and subject to change!



Products Using 4-Digit Year

- ARC Digitized Raster Graphics (ADRG)
- Vector Map (VMAP) Levels 0, 1, 2
- Urban Vector Map (UVMAP)
- Digital Nautical Chart (DNC)
- Digital Topographic Data (DTOP)
- Littoral Warfare Data (LWD)
- Digital Flight Information Publication (DFLIP)
- Tactical Ocean Data (TOD)
- Feature Foundation Data (FFD)

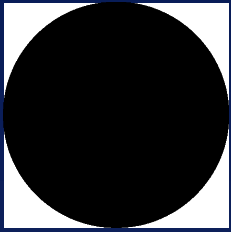
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Products Using 4-Digit Year (cont.)

- Vector Vertical Obstruction Data (VVOD)
- Vector Interim Terrain Data (VITD)
- World Vector Shoreline Plus (WVS+)
- Digital Gazetteer
- Digital Sailing Directions
- Notice to Mariners
- Summary of Corrections
- Probabalistic Vertical Obstruction Data (PVOD)
- Digital Bathymetric Data Base (0.1-0.5 Minute)
- Digital Bathymetric Data Base (Variable)

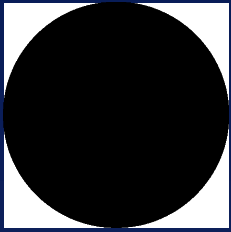
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Products Having No Year or Date is Text Field Only

- Automated Air Facilities Information File (AAFIF)
- Digital Bathymetric Data Base (5 Minute)
- Firefinder Elevation Data (FFED)
- Local Slope Data
- Non-Submarine Contact List (NSC)
- Point Positioning Data Base (PPDB)
- Radar Transformed Digital Data
- World Magnetic Model (WMM)

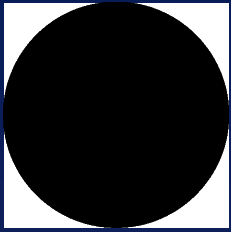
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Products Using 2-Digit Year

- Aim Point Graphic (APG)
- Compressed ARC Digitized Raster Graphic (CADRG)
- Controlled Image Base (CIB)
- Conventional Contingency Support (CCS)
- Digital Aeronautical Flight Information File (DAFIF)
- Digital Chart Update Methodology (DCHUM)
- Digital Feature Analysis Data (DFAD) Levels 1, 1-C, 2, 3-C
- Digital Point Positioning Data Base (DPPDB)
- Digital Terrain Elevation Data (DTED) Levels 1, 2
- Electronic Chart Updating Manual (ECHUM)

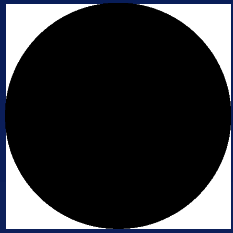
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Products Using 2-Digit Year (cont.)

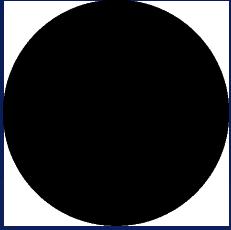
- National Target Base (NTB)
- Non-SIOP Option (NSO)
- Interim Terrain Data/Planning Interim Terrain Data (ITD/ITD)
- Scientific and Technology (S&T) Support
- Terrain Contour Matching (TERCOM) Data Base
- World Mean Elevation Data (WMED)
- World Vector Shoreline (WVS)

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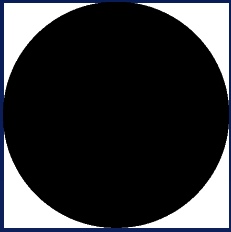


Two Approaches For Fixing 2-Digit Products

- Purpose of SD-1 coordination was to solicit:
 - Change year from 2 to 4-digit year
 - Use existing 2-digit year with sliding scale
 - Example:
 - 00 to 49 is 2000 to 2049
 - 50 to 99 is 1950 to 1999
 - Issue: standardization of break-point

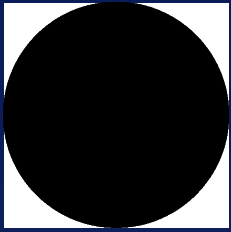


Y2K Implementation Schedule



SD-1 First Group

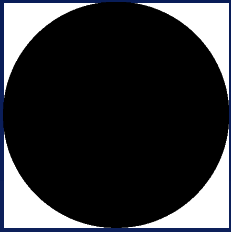
- Compressed Arc Digitized Raster Graphics (CADRG)
 - Implement 4-digit year
- Digital Terrain Elevation Data (DTED) Levels 1 & 2
 - Expand year fields to 3 & 4-digit
- World Mean Elevation Data
 - Expand year fields to 4-digit



Status of Review (Group 1)

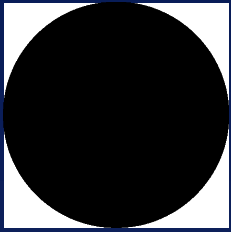
	Army	Air Force	Navy	Marines	DISA
CADRG Amdt 1	Concur		Concur *	Concur	Concur
DTED Amdt 1	Concur *		Concur *	Concur	Essential Comment
WMED Amdt 1	Concur		Concur *	Defer to Navy	Essential Comment

* With suggested/editorial comments



SD-1 Second Group

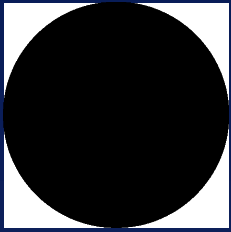
- Controlled Image Base (CIB)
 - Implement 4-digit year
- Digital Point Positioning Data Base (DPPDB)
 - First Edition specification
 - Y2K Amendment to specification
 - Handbook
 - Implement 4-digit year



Status of Review (Group 2)

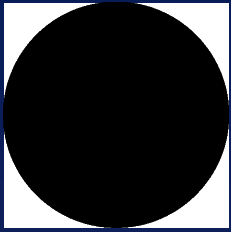
	Army	Air Force	Navy	Marines	DISA
CIB	Concur		Concur	Concur *	
2nd Ed					
DPPDB	Concur		Concur	Concur	
1st Ed					
DPPDB	Concur		Concur	Concur *	
Amdt 1					
DPPDB	Concur		Concur	Concur	
HDBK					
PPDB	Concur		Concur	Not used	
Inactivate					
VPPDB	Concur		Concur	Not used	
Inactivate					

* With suggested/editorial comments



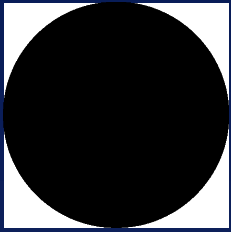
SD-1 Third Group

- Aim Point Graphic (APG)
 - 2-digit sliding range, 50-99 and 00-49
- Conventional Contingency Support (CCS)
 - 4-digit year for h/c source & pub dates
- Scientific and Technical (S&T) Support
 - 4-digit year for h/c source & pub dates
- National Target Base (NTB)
 - 2-digit sliding range, 50-99 and 00-49



SD-1 Fourth Group (Pending)

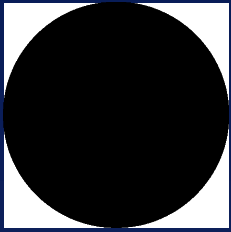
- Non-SIOP Option
 - Proposes cancellation (replace by CCS)
- Terrain Contour Matching (TERCOM) Data
 - Proposes retaining 2-digit year
- FYI - FLIP Coordinating Committee approved Digital Airfield Facilities Information File (DAFIF) Amdt 1
 - Retains 2-digit year



PEO Recommendation “Economic Realities”

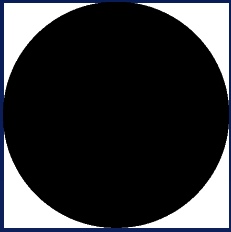
- NIMA has no funding to change any products at this time
- PEOs have recommended to implement sliding window method for all existing 2-digit products

Major impact to current SD-1 coordination activities



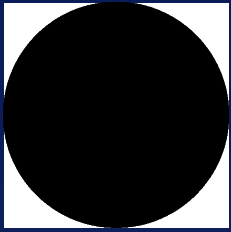
Issues

- NIMA and Services need to come to agreement on how to make products and systems Y2K compliant
- Services need to revisit position stated on Groups 1 and 2
 - Retain 2-digit year with sliding window
 - Change products to 4-digit year



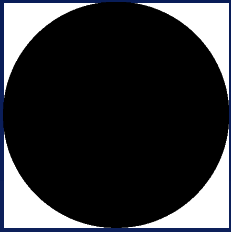
Advantages of Accepting PEO Recommendation

- Compatibility of customer systems with older data
 - May require coding changes to sliding window concept based upon usage
 - No need for dual coding in user systems
- No additional cost impact to NIMA for current production system changes
- Mass conversion and redistribution of existing data not necessary



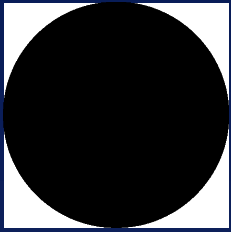
Disadvantages of 2-Digit Year

- Will impact some standards migration from Military Standards to International Standards
 - Example: NITF/NISF and BIFF
- Pushes 4-digit implementation to outyears



Recommendation

- NIMA formally rescind previously distributed Y2K SD-1 proposals
- NIMA formally propose products retain a 2-digit year field where already in use, with addition of a sliding window
- For all new products, implement a 4-digit year field as agreed to as part of the development process



Discussion